## --ABSTRACT OF THE DISCLOSURE

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An optical device including a laser with a laser cavity having a gain curve with a maximum at a wavelength  $\lambda_{max}$ ; and an optical carrier coupled to the cavity. The optical carrier includes a grating that defines a reflection peak coefficient at a wavelength  $\lambda$  that is less than the wavelength  $\lambda_{max}$  by at least 10 nanometers at ambient temperature.--